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In Memoriam... to those who have gone before



By Col. Carl Van Pelt
48th Fighter Wing Commander

Airman warriors are a special class... we are asked to put our mission ahead of our personal safety and comfort... it distinguishes our profession from all others. This warrior spirit is more than just a job description; it's an absolute requirement in our business.

Every member of our warrior team knows that he or she can count on his teammate to do what needs to be done and achieve mission success. Anything less for a fighting organization is the difference between being the victor and be-

ing a victim.

The warrior spirit is a vital resource within the Liberty Wing and extends from our front line fighter aircrew to our family members back home. Every single Liberty Wing member – both civilian and military – contribute in some way to our wing's combat capability. In that respect, we are all warriors, imbued with the drive, motivation, and pride that set us apart.

Take some time this weekend to remember those warriors who came before us and the sacrifices they made. As we do so, *let us never forget that our nation is founded upon ideals; simple ones of life, liberty and the pursuit of happiness. Let us remember we fight for ideals.*

This Monday, *let us truly memorialize those who have made their ultimate sacrifice... so that you and I and our children can live a life of freedom and one secured by ideals that shine as a beacon for the whole world to follow. Quite simply:*

"Through their deeds, they've spoken more eloquently for themselves than we ever could." -- Abraham Lincoln

This weekend is a special time for warriors. Monday is Memorial Day —

America's official day to recognize the ultimate sacrifices made by those brave men and women who've put service before self fighting our nation's conflicts. To honor them, the Liberty Wing, Third Air Force, and the U.S. Air Force will host the 55th annual Madingley Memorial Ceremony at the American military cemetery in Cambridge. Please attend. To do so would be a good thing.

Action lines

The Action Line is your direct link to me for complaints, suggestions, or comments. It's not intended to replace the chain of command. When normal command and agency channels haven't been able to resolve your concerns, call 7-2324, fax 7-5367, e-mail (Action.Line@lakenheath.af.mil), send through distribution (48 FW/PA), mail (48 FW/PA, Unit 5210 Box 215 APO AE 09464-0215), or hand carry your Action Line to the public affairs office (Bldg. 1085). You may remain anonymous; to receive a reply, leave your name, unit, duty or home phone number, and full APO mailing address. Names are confidential.


48th Fighter Wing commander

Medicine policy

We have an 18-month-old in the day care system who was refused her medicine while she was clearly suffering because I failed to put my initials on the medical log. But, I completed every other necessary step for my child to be given medicine at the day care center. I would like to know if it is ethical to allow a child to suffer because I failed to complete one of several steps needed for my child to be given medicine at the day care center.

Thank you for your call on our child development day care medicine policy. Children's health and safety are very important to us. Taking care of each other is one of our priorities, and dispensing medication to children is serious business – we don't want to make a mistake. To help us, Air Force policies and procedures are very specific. Guidance provided by the Air Force requires us to maintain a prescription on file that specifies the dosage, the dosage schedule, the child's name, and the medication name for any medication we administer. It also requires the parent to initial and date the Air Force Form 1055 daily to authorize that the medication be given and to place a medication administration bracelet on the child so there is no danger of the wrong child receiving medication.

The system is thorough, and it prevents mistakes that could be dangerous to children, such as overmedicating, using expired medications, and providing medication at incorrect times. It also ensures they are aware of any possible prescription or

See Action lines, Page 4



Aviation Dentistry

Making sure teeth are in top flying condition

The origins of aviation dentistry began during the first World War with concerns about removable prosthetic appliances and their potential hazards during flight.

Additional questions were raised as to the effect of decreased oxygen levels on gum tissue and a possible increase incidence of periodontal abscesses among aviation personnel.

Throughout the 1920s and 1930s as flying attained higher altitudes, the incidences of tooth complaints became more prevalent.

The problem was magnified with the introduction of the B-29 Flying Superfortress to the Air Force arsenal in 1942. High-altitude flying and its effects on airmen had become a very viable concern to the Air Surgeon's Office.

Research concerning effects of low barometric pressure on oral structures revealed that no new dental pathology resulted from this altered environment; however, about one to three percent of airmen experienced aerodontalgia (pain in teeth due to flying at higher altitudes — at times quite severe) sometimes resulting in an aborted mission. Obviously, aircrew commanders wanted an answer. It was

Airpower videos

Today through Thursday, the commander's access channel shows four videos daily. They are "Legends of Airpower; Doolittle," at 6 p.m., squadron commanders' videos at 7 p.m., "Gulf War Airpower" at 10 p.m. and "Legends of Airpower; Arnold" at 11 p.m.

often attributed to preexisting sinus conditions, untreated dental pathology, or faulty existing dental treatment. Pilots also showed a higher incidence of periodontal disease; however, it was determined that gingival tissue, whether normal or inflamed, is unaffected by low atmospheric pressure.

In subsequent decades, pressurized aircraft and flying suits helped decrease the incidence of aerodontalgia; however, airmen continued to have occasional complaints. Research continued, often asking the same questions with the term barodontalgia becoming more prevalent in the dental literature.

Barodontalgia is pain caused by changes in altitude. At higher altitudes, there is less air, and any air trapped in a tooth will expand, supposedly causing pain becoming more prevalent in the dental literature.

Studies in the 1970s concluded that multi-rooted teeth with partial vitality (one or more roots may be non-vital) was the major cause of barodontalgia.

During World War II, and the year's immediately follow-

ing, it was speculated that the fifth most common cause of aborted flights was dental related. This was an obvious concern to the mission of the Air Force.

In those same years, the theory of aerodontalgia had been dispelled; however, the question was raised as to whether or not teeth restored on airmen several days prior to flying were more susceptible to pain at altitude. Did the trauma to the tooth, notably, the vibration and heat generated during preparation and heat generated during preparation for a filling, create enough of a pulpitis that the tooth could be overly sensitive for several days, and if so, to what degree on flying personnel?

The existing dental drill of the day operated at about 4,000 revolutions per minute. Was it possible to operate at speeds much higher, even to the point that the dentist could cut tooth structure so quickly and efficiently that little if any heat was generated?

The addition of the high-speed hand piece (air-powered) to the dental armamentarium was revolutionary, and

the armed services played a pivotal role in its development.

Some of the earliest research involved Drs. Schuessler, Hester, and Fischer at the School of Aviation Medicine in the late 1940s and early 1950s. They developed a machine utilizing a system of pulleys, much like a ten-speed bike, to drive belt hand pieces to higher rpms. They concluded that the most efficient and safest operation of the handpiece was rpms greater than 18,000, which actually generated less heat than the standard handpiece of the day, which was soon to be referred to as the slow-speed hand piece.

Air Force dentist Jack Hartley arrived at the National Bureau of Standards in 1951, continuing the research throughout the 1950s.

His efforts resulted in many articles published on the effects of carbide and diamond burrs on pulpal tissue when cutting at speeds between 10,000 and 400,000 rpm with proper water coolant.

For fifty years, the dental corps has striven to prevent the occasional toothache encountered during flight, but for the most part, not much has changed, in that prevention seems to be the best cure.

Action lines

From Page 3

dosage change. Ultimately, the child development center staff cannot assume the parental role when it comes to administering

medication for children in their care. They therefore follow strict Air Force guidance and notify parents immediately upon noticing incorrect, outdated, or incomplete medical administration documentation.

However, it's also important

the child receives medication at the appropriate time and we need to team with parents to make that happen.

In the future, the child development center staff will do their best to ensure parental information is complete.

The system of checks and balances is there to provide the safest environment for the children in our care.

Thank you again for your call. We should be able to solve this problem if we work together.

Promotion lists out

Master selectees

48th Fighter Wing

Randy Coffman, Todd Edeker, James Farley, Allan McKinnon, Daniel Pearsall.

48th Logistics Group

Scott Heffern, Thomas McGarry, 48th LG; Nathan Oakes, Steven Whiting, 48th Logistics Support Squadron; James Bergstrom, Christopher Black, Scott Carriere, Roy Choate, Michael Labbe, Roy Curtis Lahti, Stephen Thomas, James Weselek, Robin Wright, Joseph White, 48th Component Repair Squadron; Eldonna Fernandez, Brian Hinerth, 48th Contracting Squadron; Richard Barber, John Byrd, Todd Evans, Virgil Lidell, Jeffrey Lohf, Donald Richard, Susan Rogers, Stephen Sims, Charles Sorrels, 48th Equipment Maintenance Squadron; Kenneth Clark, Bobby King, Thomas Leggett, 48th Supply Squadron; Timothy Ables, Thomas Walls, 48th Transportation Squadron.

48th Medical Group

Jeffrey Kahapea, Peggy Matthews, 48th Medical Support Squadron; Thomas Clarke, Brian Salley, Jennifer Thomas, 48th Dental Squadron; Ruben Casas, 48th Medical Operations Squadron; Kelly Casas, Peter Flynn, 48th Aerospace Medicine Squadron.

48th Support Group

Richard Seeley, 48th Services Squadron; Tyrone Herron, Kevin Lehmann, 48th Security Forces Squadron; William Cordes, James Durbin, Ken Pettibone, 48th Civil Engineering Squadron; Richard Orr, 48th Communications Squadron.

48th Operations Group

Dozier Council, 48th OG; Brian Schaffer, 48th Operations Support Squadron; Christopher Foley, Kenneth Gonzalez, Robert King, Keith Kmecik, Steven Schwarz, Allen Vancleef, 492nd Fighter Squadron; John Reynolds, Luis Rivera, 493rd Fighter Squadron; Steve Davis, Edward Halley, 494th FS;

Tenant Agencies

John Matthews, 372nd Training Squadron, Detachment 16; Dennis Graham, Brian Gregory, John Skrynecki, Brian Smith, 451st Intelligence Squadron, Menwith Hill; Tim Childers, Debra Francis, John Jackson, Terry Rector, 5th Space Surveillance Squadron.

Brian Cristiani, Steven Davidson, Lance Duclayan, Donald Dybevik, Richard Ehardt, David Hedrick, Kevin Hitchner, Stanley Leeds, Robert Madrigal, Rickey McCloud, James McElhattan, Scott McVicar, Brooks Musselman, Norman Peterson, Robert Clark, Keith Custer, Michael Medai, Ronald Roberts, Brian Roman, Douglas Wilder, 48th Component Repair Squadron; Christopher Carlson, Tammy Hooper, Anita Skipper, 48th Contracting Squadron; Steven Adams, William Akana, Billy Bailey, Robert Baillargeon, Robb Brown, Robert Delgado, Stacey Doucet, Steven Frank, Gary Fultz, Robin Gallaway, Michael Gnage, Dwight Hardy, David Hilton, Parrish Jackson, Phillip Morgan, Ada Russell, Ralph Schuller, Henry Stoltenberg, 48th Equipment Maintenance Squadron; Kim Balboa, Adrian Baul, Darrell Boyd, Paul Chaplar, John Curcio, Kevin Denault, Timothy Farner, Jon Lewis, Bryant McCullough, Jeffrey Mixon, Teresa Perdue, Luke Quirion, George Sabol, Delores Speller, 48th Supply Squadron; Daniel Torrence, Scott Ware, 48th Transportation Squadron.

48th Medical Group

Ronald Cochran, Mark Greenstreet, Robert Miller, Michael Tedesco, 48th Medical Support Squadron; Rhonda Hainey, Kara Hummingbird, Isaura Walker, Richard White, 48th Dental Squadron; Louis Chouamon, Karl Day, Robert Day, Tony Loren Gurrola, Michael Hayden, Jacqueline McCoy, Charles Miles, Aaron Powell, Ronald Pugh, Annette Whitenack, 48th Medical Operations Squadron; Jason Kent, 48th Aerospace Medicine Squadron.

48th Support Group

Jim Yee, 48th SG; David Minard, Glenn Stanley, Scott Wilsea, 48th Services Squadron; John Catterson, Steven Delorey, Lisa Gentrysandle, Vincent Gierisch, James Hess, Joseph Higginbottom, Brett Hodges, William Mathis, Douglas McCoppin, Mark Minar, James Nix, David Sullivan, 48th Security Forces Squadron; Debra Campbell, Jesus Flores, Neil Fultz, Jeremy Kitzhaber, Charles Newcomb, Michael Pratt, Steven Tate, Howard Yard, 48th Civil Engineering Squadron; Ricky Deeson, Stephen May, Gonzalo Nunez, 48th Communications Squadron; Diane Gustafson, Tracy Treadwell, Leon Lamoy, George Poli, 48th Mission Support Squadron.

48th Operations Group

Karl Bowlby, Douglas Curry, Patrick Henegan, Robert Holland, Richard Mogan, David Pantojas, Rance Thomas, 48th OG; Timothy Barrett, Gina Evans, Gerald Lempka, Colette Olson, Jodi Snyder, George Young, 48th Operations Support Squadron; Christopher Austin, Scott Carpenter, Michael Elliott, Eldon Felver, Laura Garza, Gregory Patterson, Lee Richards, Jeffrey Sauls, James Terry, Andre Todd, 492nd Fighter Squadron; Roy Dowdy, Brian Gagnon, Melina Whitted, 48th Logistics Support Squadron; Carlos Dasilva, Allen Kale, John Napolitano, Eddie Norris, 493rd FS; Craig Brown, Robert Drake, Timothy Dybdahl, Timothy Encinas, Daniel Jones, Matthew Laliberte, Lance Martin, Daniel McPherson, Daniel Murray, Rodney Rivera, Vincent Robinson, David Rosinsky, Richard Scheffler, Rodney Whitney, 494th FS.

Tenant Agencies

James Hatfield, David Lawrence, Michael Thompson, 372nd Training Squadron, Detachment 16; James Genep Helton, 18th Intelligence Squadron, Detachment 4; Philip Carpenter, Judith Cranker, Walter Hampton, Christopher Hannan, James Smith, 451st Intelligence Squadron, Menwith Hill; Miguel Agramonte, Edward Gannaway, Wesley Gilley, Eugene Lechien, Katherine Braswell McKee, Stanley Schiffelbein, Michael Tavernier, 5th Space Surveillance Squadron.

Tech selectees

48th Fighter Wing

Anthony Davis, Raymond Haines, Pamela Hall, Darren Perry, Ruth Smith, David Wooldridge, Jennifer Gomez.

48th Logistics Group

Carlos Correa, Jonnie Fitts, Phillip Flake, 48th LG; Scott Brian Benoit, Eric Brown, Scott Buckingham, John Burnett, Paul Chung,

Stop-Loss: details announced

WASHINGTON — Acting Secretary of the Air Force Whit Peters and Chief of Staff Gen. Michael Ryan announced their decision Wednesday to implement Stop-Loss, suspending normal separations and retirements for people in critical career fields effective June 15.

Peters and Ryan emphasized that they plan to keep disruption of the lives of Air Force men and women to a minimum, and to avoid adverse effects on promotions. The Air Force will hold up only separations deemed critical to preserving mission capability. The driving force behind the decision is the ongoing air campaign in the Balkans.

"We do not take this action lightly," said Peters. "Stop-Loss is designed to preserve the critical skills essential to support our missions in Europe and Southwest Asia, while remaining prepared to meet another major regional contingency. Stop-Loss will also allow us to keep our training base intact, so that we will be able to reconstitute our forces quickly when Kosovo operations cease."

Peters also acknowledged the toll taken on the total force.

"We are acutely aware that ours is a volunteer force and that this action, while essential to meeting our worldwide obligations, is inconsistent with fundamental principles of voluntary service," he said. "We also know that this action will adversely affect the lives of airmen and their families."

"We have done our best to minimize this disruption by limiting the career fields to which Stop-Loss will apply. On the individual level, we will look at the hardship caused by Stop-Loss on a case-by-case basis and do all we can to offer appropriate relief."

Stop-Loss will affect 40 percent or approximately 120,000 of those now on active duty. Slightly more than 6,000 airmen who have requested and received permission to separate or retire from the Air Force between now and December will be required to remain in uniform as a result of Stop-Loss. Stop-Loss also temporarily blocks changes of status of members of the Air Guard and Reserve that would allow a member to leave units at risk for call-up.

Twenty-three percent of Air Force specialty codes have been identified as the critical skills needed to perform the mission.

By law, Stop-Loss may be used only to suspend temporarily voluntary separations (to include discharges and resignations), retirements and promotions of members of the armed forces while a presidential call-up or mobilization is in effect. In this instance, Stop-Loss will last indefinitely, pending further reviews in the coming months, or the termination of presidential call-up for Kosovo.

"We take Stop-Loss seriously and are working hard to ensure the

AFSCs affected by Stop-Loss

Officer AFSCs

□ Fully qualified or awarded AFSC or aero rating (including all UAV operators). Where an officer is multi-qualified, practical utility will determine stop-loss applicability:

- 11XX (pilots, except "slick" C-130 pilots (11AXK) not assigned to AETC undergraduate flying training instructor duty, EA-6B, and OSA [C-9, C-12, C-20, C-21, VC-25, C-32, C-37, C-135, and C-137])
- 12XX (navigators, except "slick" C-130 navigators (12AXC) not assigned to AETC undergraduate flying training instructor duty, EA-6B, and OSA [VC-25, C-32, C-135, and C-137])
- 13BX (air battle managers)
- 13MX (air traffic control)
- 14NX (intelligence)
- 15WX (weather)
- 21AX (aircraft maintenance-munitions)
- 21GX (logistics plans)
- 21LX (logistician: only lieutenant colonels with core AFSC of 21AX or 21 GX)
- 33SX (communications and information)
- 71SX (AFOSI)

Enlisted Control AFSCs

□ Unless specifically identified, all prefixes and suffixes to the AFSCs listed below apply, except "slick" C-130 flight engineers (1A1XX) and "slick" C-130 loadmasters (1A2XX)

- 1A0XX (in-flight refueling)
- 1A000 (chief enlisted manager in-flight refueling)
- 1A1X1B and 1A1X1C (flight engineer)
- 1A100 (chief enlisted manager flight engineer)
- 1A2XX (aircraft loadmaster)
- 1A200 (chief enlisted manager loadmaster)
- 1A3XX (airborne communications system, except those assigned to C-9, C-20, VC-25, C-32, C-135 or C-137)
- 1A300 (chief enlisted manager airborne communication system)
- 1A4X1 and 1A4X1D (airborne battle management systems)
- 1A400 (chief enlisted manager airborne battle management systems)
- 1A5XX (airborne missions systems)
- 1A500 (chief enlisted manager airborne missions systems)
- 1CXXX (command control systems operations)
- 1N0X1 (intelligence applications)
- 1N000 (chief enlisted manager intelligence applications)
- 1N1X1 (imagery analysis)
- 1N2X1 (signals intelligence production)
- 1N200 (chief enlisted manager signals intelligence production)
- 1N3X0 (cryptological linguist)
- 1N3X3A, 1N3X3D, 1N3X3E, 1N3X3K, 1N3X3L and 1N3X3M, (Slavic crypto linguist)
- 1N4X1 (signals intelligence analysis)
- 1N5X1 (electronic signals intelligence exploitation)
- 1N500 (chief enlisted manager electronic signals intelligence)
- 1N6X1 (electronic systems security assessment)

- 1N600 (chief enlisted manager electronic systems security)
- 1T0X1 (survival, evasion, resistance, and escape training)
- 1T1X1 (life support)
- 1T100 (chief enlisted manager life support)
- 1T2X1 (pararescue)
- 1T200 (chief enlisted manager pararescue)
- 1W0X1A (weather)
- 1W000 (chief enlisted manager weather)
- 1W0X1A (forecaster)
- 2A0X1 (avionics test station and components)
- 2A1X1 (avionics sensors maintenance)
- 2A1X2 (avionics guidance and control systems)
- 2A1X3 (communications and navigation systems)
- 2A1X4 (airborne surveillance radar systems)
- 2A1X7 and X2A1X7 (electronic warfare systems)
- 2A3X1 (F-15/F-111 avionic systems)
- 2A3X2 (F-16 avionic systems)
- 2A3X3 (tactical aircraft maintenance)
- 2A4X1 (aircraft guidance and control systems)
- 2A4X2 (aircraft communication and navigation systems)
- 2A4X3 (aircraft command control and communications and navigation systems)
- 2A5X1 (aerospace maintenance)
- 2A5X2 (helicopter maintenance)
- 2A5X3 (bomber avionics systems)
- 2A6X1 (aerospace propulsion; except senior master sergeant)
- 2A6X2 (aerospace ground equipment; except senior master sergeant)
- 2A6X3 (aircrew egress systems)
- 2A6X4 (aircraft fuel systems)
- 2A6X5 (aircraft hydraulic systems)
- 2A6X6 (aircraft electrical and environmental systems)
- 2A7X1 (aircraft metals technology)
- 2A7X2 (nondestructive inspection)
- 2A7X3 (aircraft structural maintenance)
- 2A7X4 (survival equipment)
- 2E1X1 (satellite and wideband communications equipment)
- 2P0X1 (precision measurement equipment laboratory)
- 2R0X1 (maintenance data systems analysis)
- 2R1X1 (maintenance scheduling)
- 2T2XX (air transportation)
- 2W0X1 (munitions systems)
- 2W1X1, K2W1X1, Q2W1X1 and X2W1X1 (aircraft armament systems)
- 3C0X1 (communications/computers systems operations)
- 3C0X2 (communications/computers systems programmer)
- 3C1X2 (electromagnetic spectrum management)
- 3C2X1 (communications/computer systems control, except senior master sergeant)
- 3P0X1 (security forces)
- 5R0X1 (chaplain service support, except senior and chief master sergeant)
- 7S0X1 (office of special investigations)
- 7S000 (chief enlisted manager office of special investigations)
- 8S100 (sensor operator)
- 9S100 (applied geophysics)

lives of our Air Force members, their families and their civilian employers are not disrupted any longer than is necessary to meet our national commitments," Ryan said.

Meet the new commander

Col. Cynthia Terriberry

48th Medical Group commander



Hometown: Norwalk, Conn.

Time in service: A long time – 26 years this summer,

Recent career history: Commander, 366th Medical Group, Mountain Home Air Force Base, Idaho,

February 1997–February 1999.

Leadership philosophy: Lead from the middle... people first.

Short-term goals: Cut back to 12-hour days.

How I fulfill Core Values:

Integrity first – The first person I must answer to is myself. I have to live with my decisions for a lifetime and sometimes, so do the people whose lives I affect. That is a public trust and responsibility of great magnitude. I don't take it lightly.

Service before self – I believe this is about balance between competing and important demands. You must continuously juggle your professional commitment to your country, your morale obligation to your family and your physical, emotional and spiritual health. Anything taken to extremes a majority of the

time indicates you have lost that balance. You must question what sort of standard you have set for others you influence. Leadership is more than your job at work. It is about your lifework as a person and how you serve in all areas of your life.

Excellence in All We Do – Simply, the gold standard. I ask my kids, not what grade did they get, nor did they score in the soccer game, but did they do their best? But doing your best should also be a relative term.

You should constantly seek to improve your best, so that tomorrow's best is even better than today's.



Photo by SrA. Scott Asche

Liberty Warriors: 48th Ground Equipment Flight

Superb leadership and management coupled with motivated, highly skilled technicians resulted in error-free programs and equipment, highly detailed and comprehensive equipment monitor training, and surety resulted in a high level of surety awareness, according to the citation. Establishment of specific parts ordering/receipt instructions prevented the use of unauthorized and unsuitable parts on equipment. These accomplishments earned the 48th Equipment Maintenance Squadron ground equipment flight the Inspector General's Award of Excellence from the 1999 Surety Inspection.

News notes

Change of command

The 48th Equipment Maintenance Squadron received a new commander Monday. Lt. Col. Dennis Perez stepped down as EMS commander and Maj. Charles Webb took command. Webb formerly was the commander of the 48th Logistics Support Squadron.

Commissary news

The RAF Lakenheath commissary is closed Monday in observance of Memorial Day. The commissary reopens normal time Tuesday.

Harmon Killebrew, baseball Hall of Famer, signs autographs from 10 a.m. to 2 p.m. Tuesday at the commissary.

Post office closure

The RAF Lakenheath Post Office is closed Monday in recognition of Memorial Day. The post office reopens normal time Tuesday.

Renovations begin

The self-help center is building a new front-entry way, new flooring, shelving and a side entry leading to the yard for customer shopping.

The renovation of the store will start the second week in June. The self-help center is closed Thursday and June 4 to relocate items to the rear of the store. June 8, all operations will take place from the rear of the store at normal hours. Customers can enter through the wooden gate to the right of the front door and proceed to the back door of the warehouse. For safety reasons, parents are encouraged not to bring their children. Renovations are slated to be complete by

July 9. Call 7-2416 for more information.

Watton housing available

RAF Watton's 72 military family housing units for junior noncommissioned officers is coming on line with two and three bedroom units available first. When completed, there will be two - four-bedroom units, eight - three-bedroom units with garages, and 62 other units. An open house is scheduled for mid-June. Questions concerning RAF Watton housing may be directed to any personnel in the RAF Lakenheath Housing Assistance section at 7-5362.

New toys available

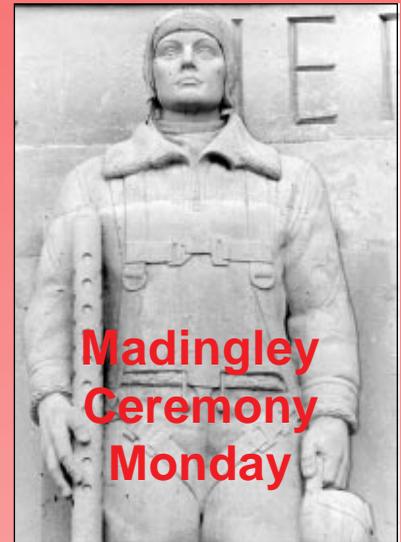
More toys recently became available at the RAF Lakenheath Child Development Center through a donation. The center received a £200 donation from Pete Chapman, chairman of the Liberty Square Anglo-American Dance Club, which holds its meetings in the Lakenheath Elementary School's cafeteria.

Finance office extends hours

Accounting and finance new hours are 8:30 a.m. to 4 p.m. Mondays, Tuesdays, Thursdays and Fridays, and 8:30 a.m. to

Correction

The May 21 issue of the Jet 48 incorrectly identified the 48th Support Group deputy commander. The name should have read, Lt. Col. Frederic Ryder, 48th Support Group deputy commander.



The Third Air Force, the U.S. Embassy in London and RAF Lakenheath host the 55th annual Cambridge-American Military Cemetery Memorial Service at 11 a.m. in Cambridge May 31.

The event honors the memory of the American World War II dead who helped achieve victory in Europe against the Axis powers. Base officials expect more than 1,000 people to attend the event which features guest speakers, a wreath laying, and a 21-gun salute.

Below is a schedule for volunteers and spectators of the event for both RAF Lakenheath and RAF Mildenhall. Buses will be marked "Lakenheath Usher/Escort/Wreath Bearers 1, 2 and 3", "Lakenheath Spectator 1 and 2", and "Mildenhall Spectator 1 and 2".

RAF Lakenheath

7:30 to 7:45 a.m. - Catch volunteer (ushers, wreath bearers and escorts) buses 1, 2 and 3 at Hangar 6. Busses then depart for Madingley Cemetery

☐ 8:45 a.m. - Catch spectator buses 1 and 2 at 48th Transportation Squadron bus stop. Busses then depart for Madingley Cemetery.

☐ 9:15 a.m. - Catch spectator buses 1 and 2 departing from Hangar 6 to Madingley Cemetery.

☐ 12:45 p.m. - Spectator buses 1 and 2 return to Madingley Cemetery to load passengers. Busses then return to transportation bus stop and then Hangar 6.

☐ 1:15 p.m. - Volunteer buses 1, 2 and 3 load up and return to Hangar 6

RAF Mildenhall
☐ 8:45 a.m. - Catch spectator buses 1 and 2 RAF Mildenhall Base Chapel then depart for Madingley Cemetery.

☐ 12:45 p.m. - Catch spectator buses 1 and 2 at Madingley Cemetery loading passengers and then base Chapel.

For more information call TSgt Taylor 7-3620.



Courtesy photo

The 48th Fighter Wing Flagship, an F-15E Strike Eagle and another Strike Eagle from the 492nd Fighter Squadron take to the skies above England.

Liberty Wing Calendar

Liberty Wing engaged

- Here's a list of Liberty Wing deployments this month:
- Operation Joint Forge in European Theater – approx. 170 people.
 - Operation Desert Storm/ Southern Watch – approx. 30 people.
 - Operation Northern Watch in European Theater – approx. 5 people.
 - Operations in support of Kosovo – approx. 680 people.
 - Other operations – approx. 5 people
 - Total deployed for the month – approx. 900 people.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 4:00 PM NCO induction at Liberty Club	2 5:00 PM British American Committee meeting	3	4	5
6	7	8	9 7:00 PM High School Graduation	10	11 5:00 PM Spouses call at the officers' club	12 Trooping the color - Queen's birthday
Aero Club SAV						
13	14	15	16	17 School ends	18	19
20 Father's Day	21 Summer begins	22	23	24	25 4:00 PM Airpower call	26
Wimbledon						
27	28	29	30 6:00 PM ALS graduation			
Wimbledon						

Airpower is, above all, a psychological weapon - and only short-sighted soldiers, too battle-minded, underrate the importance of psychological factors in war.

-- B.H.

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Space... Airpower's newest int

By 1st Lt. Peter Kerr
48th Fighter Wing public affairs

The integration of air and space power has arrived, and is a vital part of Operation Allied Force. Space-based assets provide the 48th Fighter Wing with advanced communications, intelligence imagery, weather data and navigation capabilities to carry out operation Allied Force.

Before combat missions are launched from RAF Lakenheath or one of the forward-deployed locations, numerous satellites have already been actively gathering and relaying logistical and operational information.

"Aircraft can't leave without first receiving air tasking orders," said Maj. Tracy Amos, 48th Fighter Wing communications squadron commander. "Typically, an ATO is relayed by a UHF (ultra high frequency) tactical satellite. We can set up (a satellite dish) in 15 minutes when we deploy, and from there we begin to robust the site."

"Robusting" a site involves establishing a super high frequency dish, as well as a non-secure local area network and a secure LAN that relies on satellites to re-

lay information. While Defense Satellite Communications System satellites are currently used, in the future the military may rent channels on commercial communications satellites.

"Government satellites are fairly saturated and getting old," Amos said. "Some of them have doubled their estimated service life of eight years." According to Amos, commercialization could pose problems should the commercial sources deny the military access to the satellite, but will not cause security breaches as the actual path of data is safe as long as it's secured on both ends of the transmission.

Hundreds of calls are also made to the United States to coordinate combat logistics and operations. Most communications using land lines to the United States also involve satellites.

"There are some underwater cables across the Atlantic, but most communications are via satellites," said Amos. "Since everything is going to a web-based information-pull mentality, commanders can identify the data they need, and we will be able to pull it down in a timely manner."

Besides relaying the orders to attack a specific target, satellites are also used to

gather imagery so that intelligence can identify targets and aircrew can familiarize themselves with the mission. Target selection and identification typifies the integration of air and space assets.

Gathered from satellites and reconnaissance aircraft, intelligence uses electro-optical and radar information to assess enemy and friendly actions in the area of operations, said a



48th Fighter Wing intelligence source.

Weather data is also vital to any combat strike force.

"Imagery obtained from the European meteorological satellite is used on a daily basis," said SSgt. Roland Wilson, 48th Operations Support Squadron weather flight. "Satellite imagery is our primary tool for verifying



Above, the AGM-130 is a powered air-to-surface missile designed for low and high altitude strikes. Global positioning satellites can be used for mid-course corrections. *Center of page*, a Navstar Global Positioning System Satellite is depicted. Twenty orbiting satellites provide navigation and timing information to 48th Fighter Wing aircraft and certain weapons. GPS satellites orbit the earth every 12 hours.

Integration

well our weather models are forecasting the strength and movement of a particular system.”

At forward locations, the Air Force Weather Agency’s deployable lightweight small tactical terminal captures visual, infrared, and water-vapor imagery from the Defense Meteorological Satellite Program.

This data is used to determine atmospheric temperature and moisture.

Other space-based assets also support missions flown over Serbia.

“The North Atlantic Treaty Organization Meteorological Imagery System, commonly known as NAMIS, uses two way communications via satellites to gather and send a wide variety of

weather data,” said Capt. Robert Kraetsch, 48th OSS weather flight commander. “Solar flare activity is also measured, as heavy activity disrupts higher frequency communications.”

After aircrew receive their orders and by their mission and weather data, they take off and head toward their target, assisted by navigation satellites.

“We’re starting to use the Embedded Global Positioning System/Inertial Navigation System,” said Maj. Michael Arnold, 48th OSS weapons and tactics officer. The EGPS/INS allows Navstar Global Positioning System satellites to “talk” to the aircraft’s on board INS, to constantly give the aircraft accurate position updates.

“If you are accessing four satellites, you can gain information on your location in three dimensions, and subsequently you can compute your speed and flight direction,” Arnold said.

The more-than-20 Navstar satellites assist the F-15E’s weapon systems operators to guide in AGM-130 missiles. The AGM-130A is a powered air-to-air missile equipped with a television camera and data link, that can either

be visually guided to a target or can use GPS satellites, or both. This allows an F-15E to potentially launch a missile, fight an air-to-air challenge, and then go back to visually guide the missile to its target.

The 494th Expeditionary Fighter Squadron, 48th Fighter Wing, RAF Lakenheath, was the first to employ the AGM-130 in combat during Operation Northern Watch. Due to their surgical precision, these missiles are now used daily in Operation Allied Force so that collateral damage is minimized.

With all these satellites assisting the 48th Fighter Wing’s mission, and others world-wide, doesn’t space get crowded?

“Yes,” said Lt. Col. John Amrine, 5th Space Surveillance Squadron commander. “It is becoming increasingly cluttered with more than 9,500 man-made objects in space. 5th space is one sensor that provides observations 7 (days) 24 (hours a day) such that objects won’t collide in space, and we maximize our resources in

orbit.”

With so much warfare capability riding on satellites, space warfare may be a reality in the not too distant future, said Amos. While sea space and air space have been defined, space has no boundary. That may create future conflict.

“There is no territory mark off in space,” said Amos. “How will we define defending our territory?”

“As the importance of space grows and other countries begin to exploit the advantages of operating in the high ground, the next trend — controlling space — will become as important as controlling the seas or air,” said Gen. Thomas Moorman Jr., former Air Force vice chief of staff during a speech at the Royal Australian Air Force University. “Eventually an ability to protect, deny, disrupt, degrade and destroy space assets must be pursued if the United States and its allies want to ensure freedom of access and action in space.”



The “golf balls” at RAF Feltwell contain satellite dishes used for detecting, tracking and identifying deep space and low-altitude satellites.

courtesy photos

Schools go to new PCs



By Andrew Zacharias

The Department of Defense Education Activity Technology Steering Committee has established the personal computer as the single platform for future computer purchases. Macintosh will be purchased as an exception in specific areas only which are identified by either the Education or IT Division.

Cost and convenience are the two chief factors considered when making this decision. A considerable savings is realized when large numbers of a single type of computer are procured. Hardware and software maintenance is less costly, and staff development and technical support for one platform are simplified. The problems associated with system-wide software development and hardware and software installation are also reduced.

Many school districts in the United States are migrating to a single PC platform. Districts having multiple platforms have found an increased demand on the educational and administrative technologists. Additionally, recently adopted software systems such as WinSchool do not support the Macintosh platform.

Schools brief

Teach the teacher

Volunteers are needed for a few hours June 5 at 1 p.m. at the Mildenhall Chapel to sit in on a focus group addressing unique issues military children and their families face in relation to Department of Defense Dependent Schools in England.

To capture the wide range of challenges military children and families face, it is critical to get diversity: enlisted and officer parent volunteers; single parents of both genders and DODDS students who are attending elementary, middle and high school. In addition, experienced PCSers who have PCSed numerous times and some younger folks experiencing their first moves when they arrived at RAF Mildenhall or Lakenheath are needed. For information, contact David Aaron at draaron@cwcom.net.



Photo by A1C Rhiannon Bright

Brass band

From left to right: SSgt. Nick Althouse, SSgt. Lawrence Price, SSgt. Steve Eklund, SrA. Scott Foreman, SSgt. Christie Anderson, SSgt. Brian Wood. The U.S. Air Forces in Europe band, 5 Star Brass, performed at various locations around the base May 21. The locations included the 48th Component Repair Squadron, the 48th Services Squadron picnic at Freedom Park, the family support center, 48th Transportation Squadron and more.

Briefs

Job vacancy

A vacancy is available for a full time rated active Guard Reserve ACMI Range Training Officer at Camp Douglas, Wisconsin. The AFSC required is 11F3X or 12F3X in the O-1 to O-3 pay grades. Applications must be in by June 18. Flying opportunities are also available. Call Maj. Smith at DSN 946-3555 or visit the website at www.volkfield.ang.af.mil.

Loaner furniture

Due to the recent temporary relocation of the furniture management warehouse, people who wish to accomplish a self-turn-in or pick-up of temporary loaner furniture or kitchen appliances, it's essential that they liaise with FMO at 7-7029.

Hangar dance

RAF Molesworth sponsors a hangar dance at 6 p.m. June 5. Participants may dress in 1940s fashion to go along with the Mainline Big Band, which plays from 7:45 to 11:30 p.m. The evening includes dinner and door prizes. Cost is £6.50 per person. Call Andy Sharp at DSN 268-3757 for details.

Kosovo briefings

The RAF Lakenheath Family Support Center offers individual consultations to parents and children concerning the 48th Fighter Wing's involvement in the current Kosovo situation. For more information call Mike Cooley or Barbara Board at 7-3847.

Family support center aid



MSgt. Patrick Doan, 48th Mission Support Squadron, is THE Liberty Wing contact for families with deployed members. People who have questions or need help can reach him in the RAF Lakenheath Family Support Center at (01638) 523847 during duty hours or through the command post at (01638) 524800 after duty hours.

A car care program is offered for families with deployed members. The program, paid by Air Force Aid, allows each family to have an oil change, lubrication and a 14-point safety check on the primary family vehicle.

Services

Story hour

The May story hour for pre-school and elementary school students at the RAF Lakenheath Library is about English folk tales. Story hour is from 3:30 to 4:30 p.m. Wednesday. For details, call 7-3713.

Cultural presentation

The RAF Lakenheath Library sponsors a Spanish cultural presentation featuring the Flamenco Dance Group, "The Zambra" at 6:30 p.m. June 12. Call 7-3713 for more information.

Reading program

The RAF Lakenheath Library sponsors the Summer '99 Reading Program. The program runs from June 22 to Aug. 30. All children are eligible to participate. Sign-up dates are from June 22 to 27. For more information, call 7-3713.

Balloon deliveries

The Lakenheath Community Center is taking orders for Father's Day balloon deliveries. Balloon arrangements start at \$8.50. Deliveries will be made starting at 10 a.m. June 20. Call 7-2221 to order.

Shepherd's Grove Community Center offers Father's Day balloon bouquets for the Shepherd's Grove area. Prices start at \$8.50. Deliveries will be made from 2 to 3

p.m. June 20. Call (01359) 250269 for details.

Father's Day brunches

The Liberty Club sponsors a Father's Day brunch from 10:30 a.m. to 2 p.m. June 20. Items include specialty entrees, salads, breakfast, dessert and more. The cost is \$12.95 for adults, \$4.95 for children ages six to 12 and free for children 5 and younger. Reservations are not required. For more information call 7-2489.

Father's Day brunch at the Officers' Club is from 10 a.m. to 2 p.m. June 20. The event is open to all ranks. The brunch features specialty entrees, breakfast and dessert bars, salads and more. Adults are \$12.95, children ages six to 12 years \$4.95, and children 5 and younger free. Reservations are recommended. Phone 7-2535 to make reservations or for more information.

Father's Day specials

Rent a children's video at Electric Avenue from Tuesday to June 17 and be entered into the 48th Services Squadron Father's Day drawing for a \$50.00 gift certificate. The drawing is at 2 p.m. June 18.

Have the arts and crafts center customize a gift for Dad. Receive 25% off personalized mugs.

Creative memories classes

The RAF Feltwell Community Center sponsors "creative memories" classes where people can create their own album. Classes are Saturdays. People can sign up for: creative beginners, creative layout, unique pocket pages, crop 'til you drop, or fun with stickers and borders. Each class is \$10, except crop 'til you drop, which is \$12. Call 7-7023 for details or to sign up.

Jobs

The 48th Services Squadron has part-time and full-time vacancies for pizza deliverers and food service workers at the Great Little Pizza Place, Liberty Club and the RAF Lakenheath Officers' Club. Waiters are needed at the Liberty and officers' clubs. Cooks are needed at the Liberty Club. Custodial workers are needed at the Liberty Club, and housekeepers are needed at Liberty Lodge.

A valid driver's license is required for the pizza deliverer position. Cooks must have prior experience preparing, frying and grilling food in an established dining facility.

Part-time employment is available for family members 16 and older and for active-duty members. Interested applicants should go to the 48th Services Squadron employment office in building 957 to pick up an application and set up an interview.

Family support center

All family support center classes are open to active duty, retirees, Department of Defense Civilians and family members. All classes are held at the family support center, unless otherwise noted. For more information, or to sign up for a class, call 7-3847.

☐ **Job Shop**— An open forum is from 9 a.m. to noon Wednesday. At the forum, people can discuss and brainstorm jobsearch questions or problems with others.

☐ **Sponsor Training** — 11 – 11 am, This class is at 11 a.m. Wednesday and offers tips, which will help people be better sponsors. Spouses may attend.

☐ **Celebrating National Stepparents' Week**— The FSC will be honoring Stepparents with refreshments and a group support forum from 1:30 to 3 p.m. Thursday. People can go and share ideas, experiences and thoughts on step parenting with others.

☐ **PCS'ing With Your Pet**— This class is from 6 to 7:30 p.m. Thursday. The class discusses what people need to know before shipping their pet back to the United States.

☐ **Working in the UK: Select Education Recruiting**—Recruiters look for Special-ED/Special-Needs Teachers for off-base schools from 1 to 2 p.m. June 4.

☐ **Pre-Separation Counseling**— The session is at 8:30 a.m. June 4. This is a mandatory session for anyone retiring or separating, transition counselors discuss benefits and entitlements.

☐ **Wadda Ya Wanna Be When Ya Grow Up?**— Tests will be administered which assess personality type and career values from 9 a.m. to noon June 8.

☐ **How To Tie a Tie**— Learn how to tie the 4 basic tie knots from 1 to 3 p.m. June 9.

☐ **PCS with EASE**—Representatives from the travel management office, housing, legal, finance and family advocacy offer suggestions and tips for service member's next permanent change of station move from 1 to 3 p.m. June 9.

☐ **Kids on the Move (Ages 5 – 12)**— The session is from 4 to 5:30 p.m. June 10. Children participate in games, activities and watch a video all related to kids and moving. Snacks are provided.

☐ **Working in the UK: Select Education Recruiting**—Recruiters look for Special-ED/Special-Needs Teachers for off-base schools from 1 to 2 p.m. June 11.

☐ **Pre-Separation Counseling**— The session is at 8:30 a.m. June 11. This is a mandatory session for anyone retiring or separating, transition counselors discuss benefits and entitlements.

The family support center is expanding their hours beginning Tuesday. The resource room and video telephone room will be available until 8 p.m. Monday through Friday.



Photo by SSgt. David Griffith

Crocheting class

Tina Cherasard practices crocheting techniques Saturday. The RAF Feltwell Community Center offered three different crocheting classes throughout May. The classes were for adults, school-aged children and for adults and children together. Call 7-7021 for information on future classes.

At the movies



RAF Lakenheath

Today
7 p.m. — “**Rushmore**” (R) Starring Jason Schwartzman and Bill Murray. A student at one of the finest private schools in the country, Rushmore Academy, loves his school, but is one of the worst students.

10 p.m. — “**Rushmore**” (R)

Saturday
4 p.m. — “**All Dogs Go to Heaven**” (G) Animated. A scrappy street dog dies, but is sent back to earth to protect a little girl.
7 p.m. — “**Shakespeare in Love**” (R) Starring Gwyneth Paltrow and Joseph Fiennes. It's 1593, and Will Shakespeare is suffering from a dreadful bout of writer's block. He just can't seem to get his latest project to come together.
10 p.m. — “**Shakespeare in Love**” (R)

Sunday
4 p.m. — “**Dr. Doolittle**” (PG) Starring Eddy Murphy and Oliver Platt. A wealthy doctor has everything, then it is all put in jeopardy when he discovers he can speak to animals.
7 p.m. — “**Rushmore**” (R)

Monday
7 p.m. — “**Shakespeare in Love**” (R)

Tuesday
7 p.m. — “**Shakespeare in Love**” (R)

Wednesday
7 p.m. — “**The Mummy**” (PG-13) Starring Brendan Fraser and Rachel Weisz. In 1925, an expedition of treasure-seeking explorers in the Sahara Desert stumble upon an ancient tomb. The hunters unwittingly set loose a 3,000-year-old legacy of terror.

Thursday
7 p.m. — “**Shakespeare in Love**” (R)

June 4
7 p.m. — “**Shakespeare in Love**” (R)
10 p.m. — “**Rushmore**” (R)

RAF Mildenhall

Today
7 p.m. — “**The Mummy**” (PG-13)
10 p.m. — “**Shakespeare in Love**” (R)

Saturday
7 p.m. — “**Corrupter**” (R) Starring Mark Wahlberg and Chow Yun-Fat. A Chinese born detective on the NYPD is one of the force's most decorated officers. With another cop, the two learn first hand how power and influence have compromised their superiors.

10 p.m. — “**Affliction**” (R) Starring Nick Nolte and Sissy Spacek. A police officer and traffic cop in a small, depressed town find themselves on a collision course with disaster.

Sunday
7 p.m. — “**8 mm**” (R) Starring Nicholas Cage and Joaquin Phoenix. A surveillance specialist's search for the truth behind an 8 millimeter film turns his life upside down and into society's darkest corners.

Monday
7 p.m. — “**Affliction**” (R)

Tuesday
7 p.m. — “**The Mummy**” (PG-13)

Wednesday
7 p.m. — “**Corrupter**” (R)

Thursday
7 p.m. — “**8 mm**” (R)

June 4
7 p.m. — “**A Murder of Crows**” (R) Starring Cuba Gooding Jr. and Tom Berringer. When a disbarred lawyer publishes a novel someone else has written, he finds the unsolved mysteries in the story are true and becomes the police's prime suspect.
10 p.m. — “**8 mm**” (R)



Photo by A1C Joseph Lozada

Close call?

Chris McGuire slips into third base as Paul Iverson waits for the call. McGuire was called safe and went on to score during the Det 16 victory of the 48th MSS intramural softball team last week.

Eagles destroy Marauders

The Lakenheath Eaglesmen's varsity softball team completed a double header sweep of the Mildenhall Marauders Sunday at Mildenhall softball complex.

The first game of the double header was a blowout from the start. Lakenheath scored 12 runs in the top of the first and continued to pound away at the Marauders with the final score ending up 48 to 9. Richie Smith going eight for eight with two homeruns led Lakenheath at the plate. Clint Jordan was seven for seven. Rob King and Jim Westmoreland added two home runs, JL Marvin, Donnie Morris, Brian Gorham and Kevin Walb each slapped one over the fence.

The second game of the double header was much closer with the Eagles winning 25 to 21. Clint Jordan and Scott Fisher went four for four in the second game to lead the Eagles. Donnie Morris added 2 homeruns. Richie Smith, Terry Banfield, JL Marvin, Ron Gray, Clint Jordan and Eddie Young also belted a homer.

Sports shorts

Swim team update

The RAF Lakenheath Masters swim team ventured out to their second meet of the year.

The team, composed of eight people from the Liberty Wing and RAF Mildenhall, achieved success. The team haul included 11 gold medals, nine silver and four bronze for individual swims, and a team silver for the four-by-two meter women's freestyle relay.

Overall the team came fourth. The team achieved 27 personal best times. One team member Cathy North, never swam competitively before and achieved a first in her heat.

The outstanding swimmers from the meet were Karen Billington, Jennifer Barlett and Carmen Gessler. The club competes again at the Southern England Championships in September. For more information call Michael Ambrose at 7-2815.

Baseball, softball

Registration for the 1999 RAF Mildenhall youth baseball and girls softball season runs through June 1. All children 5 to 18 are eligible for baseball, and all girls 11 to 18 are eli-

gible for softball. Cost is \$30 for non-members and \$25 for members. The seasons run from June 21 to Aug. 6, and coaches are needed for both sports. Call 89-7078 for more details.

Tanning briefing

The RAF Lakenheath Health and Wellness center sponsors a briefing on sun awariness from 11:30 a.m. to 1 p.m. Thursday in the HAWC classroom. The HAWC is giving away free sun tan lotion to everyone, and they are also giving away free t-shirts to the first eight people who sign-up and attend. Call 7-4295 for more details.

Golf family outing

The golf course sponsors three hole, par three golf 5:30 p.m. June 12. Call 7-2223 for more details.

Lakenheath Open

The golf course is the site of the annual Lakenheath Open Tournament June 26 and 27. The tournament is a 36-hole stroke play tournament. The event is limited to the first 100 entries. Cost is \$35 plus \$20 green fees. Call 7-2223 for more details.

Intramural Softball Monday and Wednesday Division

Team	Wins	Losses
Det 16	7	0
SFS 'A'	6	1
SFS 'D'	4	4
EMS 'A'	3	2
Trans	3	1
MSS	2	4
Lancer	1	1
CRS 'A'	1	4
SVS	0	6

Tuesday and Thursday Division

Team	Wins	Losses
492nd FS	6	0
AMMO	5	0
CES	3	2
DSTS	3	1
MDG	2	2
OSS	2	2
Badger	2	5
PMEL	1	3
Supply	0	2
Comm	0	3
CRS 'D'	0	4

Women's Recreational Softball

Team	Wins	Losses
MDG	1	0
Supply	1	0
CS	0	1
SFS	0	1
SVS	0	0